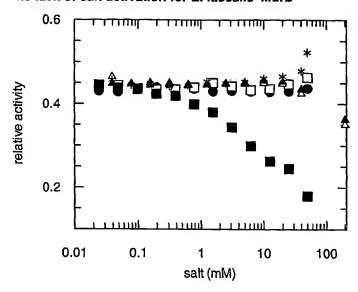


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Figure 1

## The lack of salt activation for E. faecalis MurD



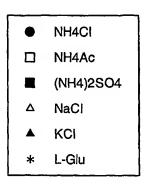
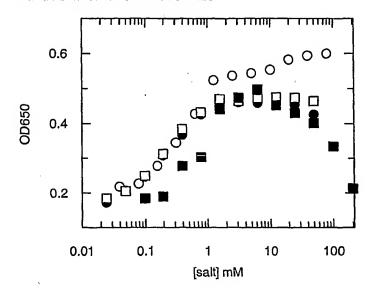
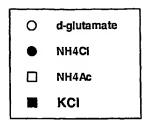




Figure 2

## Salt activation of S. aureus MurD



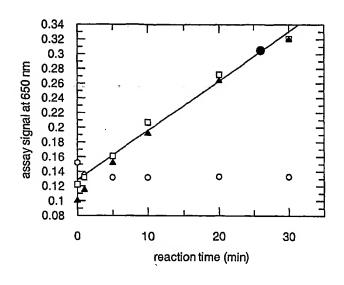


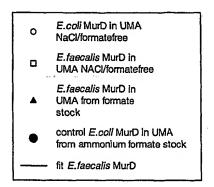


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Figure 3

E. coli enzyme activity is dependent on ammonium formate



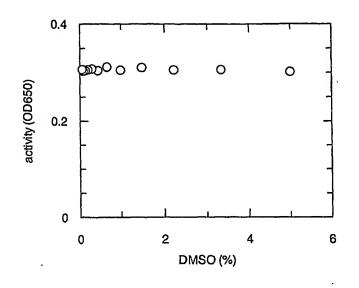




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Figure 4

DMSO dependence of *E. faecalis* MurD



O E. faecalis MurD DMSO dependence

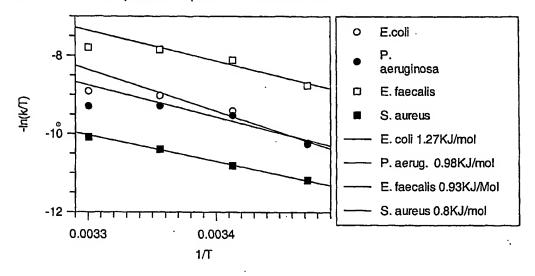


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Figure 5

## Temperature dependence of MurD orthologs

This Graph (Eyring Plot) shows the activation enthalpies for all for orthologs. The higher this value the more temperature dependent the reaction rate.



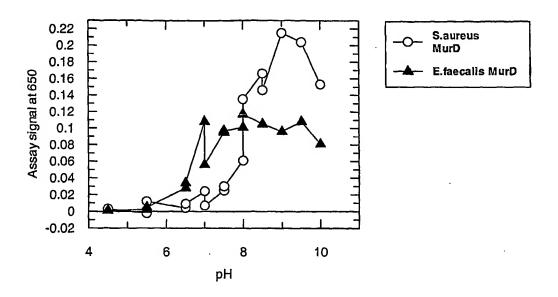


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Figure 6

pH dependence of MurD orthologs

(a)



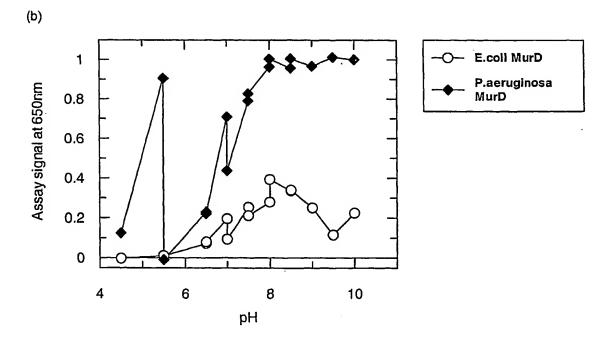




Figure 7

Background ATPase activity of MurD orthologs

Background ATPase Activity of MurD Orthologs. -O- E. coli MurD 1 300 E. coli MurD 2 - S. aureus MurD Rate 200 E. faecalis MurD P. aeruginosa MurD 100 0 20 40 60 80 100 Concentration of MurD (nM)